

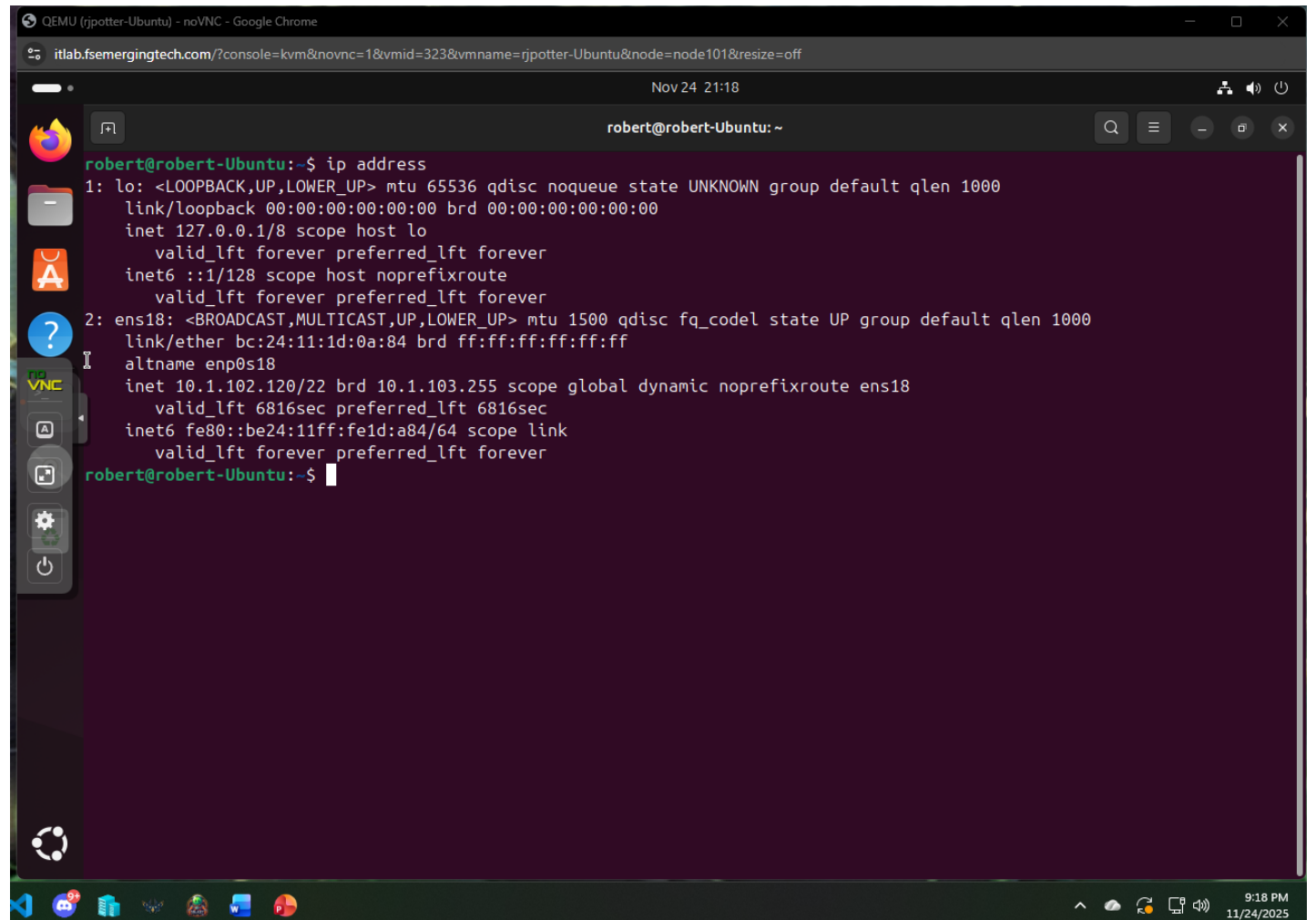
VCO Lab 1

Robert Potter

CTI1301 – VCO – C202512 Section 01

Professor Tony Guzman

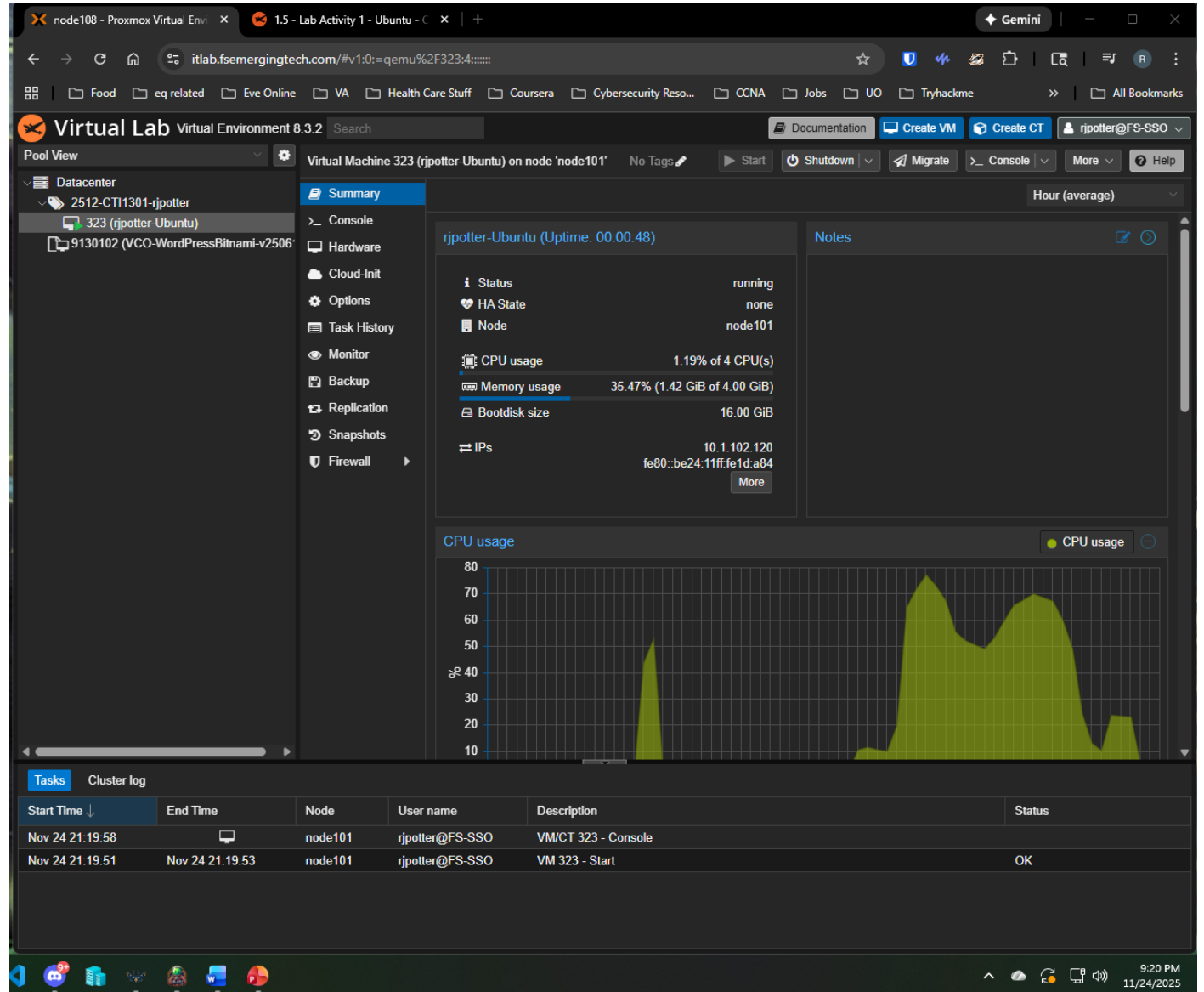
1a. Ubuntu Terminal



The screenshot shows a QEMU virtual machine window titled "QEMU (rjpotter-Ubuntu) - noVNC - Google Chrome". The address bar displays a URL from "itlab.fsemergingtech.com". The virtual machine's desktop environment is Ubuntu, with a terminal window open. The terminal shows the output of the "ip address" command, displaying details for the loopback interface "lo" and the ethernet interface "ens18". The terminal prompt is "robert@robert-Ubuntu: ~". The desktop background is dark purple, and the left sidebar contains icons for the Dash, Home, Applications, and Dash to Dock. The bottom of the window shows a taskbar with various application icons and a system tray with the date and time "9:18 PM 11/24/2025".

```
robert@robert-Ubuntu:~$ ip address
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host noprefixroute
        valid_lft forever preferred_lft forever
2: ens18: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether bc:24:11:d0:a:84 brd ff:ff:ff:ff:ff:ff
    altname enp0s18
    inet 10.1.102.120/22 brd 10.1.103.255 scope global dynamic noprefixroute ens18
        valid_lft 6816sec preferred_lft 6816sec
    inet6 fe80::be24:11ff:fe1d:a84/64 scope link
        valid_lft forever preferred_lft forever
robert@robert-Ubuntu:~$
```

Part 1b. Summary



Part 1c. Hardware

node111 - Proxmox Virtual Envi x 1.5 - Lab Activity 1 - Ubuntu - C x + Gemini

itlab.fsemergingtech.com/#v1:0:=qemu%2F323:4:::7::

Virtual Lab Virtual Environment 8.3.3 Search Documentation Create VM Create CT rjpotter@FS-SSO

Pool View

- Datacenter
 - 2512-CT11301-rjpotter
 - 323 (rjpotter-Ubuntu)
 - 9130102 (VCO-WordPressBitnami-v2506)

Virtual Machine 323 (rjpotter-Ubuntu) on node 'node101' No Tags Start Shutdown Migrate Console More Help

Summary Add Remove Edit Disk Action Revert

Console

Hardware

- Cloud-Init
- Options
- Task History
- Monitor
- Backup
- Replication
- Snapshots
- Firewall

Memory 4.00 GiB

Processors 4 (1 sockets, 4 cores) [host]

BIOS Default (SeaBIOS)

Display Default

Machine Default (i440fx)

SCSI Controller VirtIO SCSI single

CD/DVD Drive (ide2) iso:iso/ubuntu-24.04.2-desktop-amd64.iso,media=cdrom,size=6194550K

Hard Disk (scsi0) vmstorage1:vm-323-disk-0,ioread=1,size=16G,ssd=1

Network Device (net0) virtio=BC:24:11:1D:0A:84,bridge=vbr0,firewall=1

Tasks Cluster log

Start Time ↓	End Time	Node	User name	Description	Status
Nov 24 21:23:10	Nov 24 21:23:10	node101	rjpotter@FS-SSO	VM 323 - Stop	OK
Nov 24 21:21:51	Nov 24 21:21:56	node101	rjpotter@FS-SSO	VM 323 - Shutdown	OK
Nov 24 21:19:58	Nov 24 21:21:55	node101	rjpotter@FS-SSO	VM/CT 323 - Console	OK
Nov 24 21:19:51	Nov 24 21:19:53	node101	rjpotter@FS-SSO	VM 323 - Start	OK

9:28 PM 11/24/2025

Part 1d. Options

node111 - Proxmox Virtual Env x 1.5 - Lab Activity 1 - Ubuntu - C x + Gemini

itlab.fsemergingtech.com/#v1:0=qemu%2F323:4:::9::

Virtual Lab Virtual Environment 8.3.3 Search Documentation Create VM Create CT rjpotter@FS-SSO

Pool View

- Datacenter
 - 2512-CT11301-rjpotter
 - 323 (rjpotter-Ubuntu)
 - 9130102 (VCO-WordPressBitnami-v2506)

Virtual Machine 323 (rjpotter-Ubuntu) on node 'node101' No Tags Start Shutdown Migrate Console More Help

Summary Edit Revert

- Console
- Hardware
- Cloud-Init
- Options
- Task History
- Monitor
- Backup
- Replication
- Snapshots
- Firewall

Name	rjpotter-Ubuntu
Start at boot	No
Start/Shutdown order	order=any
OS Type	Linux 6.x - 2.6 Kernel
Boot Order	scsi0, ide2, net0
Use tablet for pointer	Yes
Hotplug	Disk, Network, USB
ACPI support	Yes
KVM hardware virtualization	Yes
Freeze CPU at startup	No
Use local time for RTC	Default (Enabled for Windows)
RTC start date	now
SMBIOS settings (type1)	uuid=04ad948b-a047-40f2-b7b4-e4290a1d9b96
QEMU Guest Agent	Enabled
Protection	No
Spice Enhancements	none
VM State storage	Automatic
AMD SEV	Default (Disabled)

Tasks Cluster log

Start Time ↓	End Time	Node	User name	Description	Status
Nov 24 21:23:10	Nov 24 21:23:10	node101	rjpotter@FS-SSO	VM 323 - Stop	OK
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Nov 24 21:19:58	Nov 24 21:21:55	node101	rjpotter@FS-SSO	VM/CT 323 - Console	OK
Nov 24 21:19:51	Nov 24 21:19:53	node101	rjpotter@FS-SSO	VM 323 - Start	OK

9:28 PM 11/24/2025

ProxMox
Dashboard,
Pool View, All
VMs powered
down

The screenshot displays the Proxmox Virtual Environment (PVE) web interface. The browser address bar shows the URL `itlab.fsemergingtech.com/#v1:0=%2Fpool%2F2512-CT11301-rjpottter:4::::9::`. The interface is titled "Virtual Lab Virtual Environment 8.3.3".

Pool View: The left sidebar shows a tree view of the datacenter. The selected resource pool is "2512-CT11301-rjpottter". Below it, two VMs are listed: "323 (rjpottter-Ubuntu)" and "9130102 (VCO-WordPressBitnami-v2506)".

Search: A search bar is located at the top right of the main panel. Below it, a table lists the VMs in the pool.

Type	Description	Disk usage...	Memory us...	CPU usage	Uptime	Host CPU ...
qemu	323 (rjpottter-Ubuntu)					

Tasks: The bottom panel shows a table of tasks. The "Tasks" tab is selected, and the "Cluster log" is visible.

Start Time	End Time	Node	User name	Description	Status
Nov 24 21:23:10	Nov 24 21:23:10	node101	rjpottter@FS-SSO	VM 323 - Stop	OK
Nov 24 21:21:51	Nov 24 21:21:56	node101	rjpottter@FS-SSO	VM 323 - Shutdown	OK
Nov 24 21:19:58	Nov 24 21:21:55	node101	rjpottter@FS-SSO	VM/CT 323 - Console	OK
Nov 24 21:19:51	Nov 24 21:19:53	node101	rjpottter@FS-SSO	VM 323 - Start	OK

The bottom of the screen shows a Windows taskbar with various application icons and a system clock indicating 9:26 PM on 11/24/2025.